KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:	1		(See Instruct	tions on Re	everse Side)				
Or	en Flow			Test Date				A D	No. 15			
☐ De	eliverabi	lty		Test Date 6/2/201					No. 15 -20347-00(ව		
Company		sources				Lease Harder				1-4	Well Nu	mber
County Sherma	n	Locat SWNE		Section 4		TWP 7S		RNG (E	/W)		Acres A	ttributed
Field Goodlar	nd	M 1000		Reservoi Niobrara					thering Conn Systems In			
Completi 7/24/200		•		Plug Bac 1198'	k Total Dept	th		Packer	Set at			
Casing Size Weight 4 1/2" 10.5#			Internal (4.052	Diameter	Set at 1211'		Perforations 1024'		то 1054'	•		
Tubing S	lize	Weig	ht	Internal Diameter Set at			at	Perforations				
		(Describe) entional)		Type Flui Dry Ga	d Production	n		Pump U Flowir	nit or Traveling	Plunger? Yes	/ (No)	
Producin	_	(Annulus / Tubir	ig)	% C	Carbon Dioxi	de		% Nitro	jen	Gas Gr .6	avity - 0	à _g
Vertical [)			Pres Flan	sure Taps ge	·			(Meter 2"	Run) (Pi	over) Size
Pressure	Buildup	: Shut in 6-		20_15 at_4	:30	(AM) (PM)				15 _{at} 4:40	(AM(PM)
Well on L	_ine:	Started 6-2	22	0 15 at 4	:40	(AM)(PM)	Taken <u>6-</u>	3	20	15 at 5:30	(AM)(PM)
				1	OBSERVE	D SURFAC				Duration of Shut-	in _24	Hours
Static / Dynamic Property	ynamic Size <i>Meter</i> Differential Prover Pressure in		Differential in	t t (P _w)		Wellhead	l l		Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)		d Produced Barrels)
Shut-In		, , , ,	2			15	29.4	paig	psia			
Flow						6	20.4			24	0	
					FLOW STR	REAM ATT	RIBUTES					
Plate Coeffied (F _b) (F Mofe	cient _p)	Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Grav Fac F	tor 7	Flowing Temperature Factor F ₁₁	Fa	iation ctor : pv	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
									10			
				(OPEN FL	OW) (DELIV		•			(P _a)	² = 0.2	07
(P _c) ² =		_: (P _w) ² =	=:			% (P _c - 14.4) +	14.4 =	:	(P _d)	² =	
(P _c) ² - (or (P _c) ² - ((P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Sic	essure Curve ope = "n" or ssigned dard Slope	n v	rog	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)
			GINIOGO DY: 1-c - Fw	37.	<u> </u>	Cian	Ciopo			-		
Open Flo	w		Mcfd @ 14.	.65 psia		Delivera	oility			Mcfd @ 14.65 ps	ia	
		•	on behalf of the	e and correc		this the _2	2		ne above repo	ort and that he ha	,;	ledge of 20 15 .
		Witness	(if any)		APR 0			M	MAL For (Company	ul	urg
		For Com	mission					_	Che	cked by	_	

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I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exemption from open flow testing for the Harden 1-4
gas well on the grounds that said well:
is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No
is not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date:
APR 0 7 2016 RECEIVED Signature:

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

W403 Harden 1-4 North Goodland Goodland None June-15

	Casing					IRS	REMARKS
DATE	PSI	ST	ATIC	MCF	I	OOWN	(Maximum length 110 characters)
6/1/2015		15	27		0	24	
6/2/2015		15	28		0	24	
6/3/2015		13	26		12	0	
6/4/2015		12	25		12	0	
6/5/2015		11	24		13	0	
6/6/2015		10	23		13	0	
6/7/2015		9	22		13	0	
6/8/2015		9	22		13	0	
6/9/2015		8	21		13	0	
6/10/2015		7	21		13	0	
6/11/2015		6	21		13	0	
6/12/2015		6	20		13	0	
6/13/2015		6	20		10	4	
6/14/2015		6	20		12	0	
6/15/2015		6	20		13	0	
6/16/2015		6	20		12	0	
6/17/2015		6	20		11	0	
6/18/2015		6	19		12	0	
6/19/2015		6	19		11	0	
6/20/2015		6	19		10	1	
6/21/2015		6	19		11	0	
6/22/2015		6	19		11	0	
6/23/2015		6	19		11	0	
6/24/2015		6	19		11	0	
6/25/2015		6	19		9	2	
6/26/2015		6	19		11	0	
6/27/2015		6	19		11	0	
6/28/2015		6	19		11	0	
6/29/2015		6	18		11	0	
6/30/2015		6	18		11	0	
7/1/2015			0		0	0	

Total 327

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W403 Harden 1-4 North Goodland Goodland None July-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
7/1/2014		6	19	10	0	
7/2/2014		6	19	10	0	
7/3/2014		6	19	10	0	
7/4/2014		6	19	10	0	
7/5/2014		6	19	9	0	
7/6/2014		6	19	9	0	
7/7/2014		6	19	10	0	
7/8/2014		6	19	10	0	
7/9/2014		6	19	10	0	
7/10/2014		5	18	10	0	
7/11/2014		6	19	9	0	
7/12/2014		6	19	9	0	
7/13/2014		6	19	9	0	
7/14/2014		6	19	9	0	
7/15/2014		7	20	6	6	
7/16/2014		7	20	8	0	
7/17/2014		7	20	7	0	
7/18/2014		7	20	7	0	
7/19/2014		7	20	7	0	
7/20/2014		7	20	7	0	
7/21/2014		7	20	7	1	
7/22/2014		7	20	8	0	
7/23/2014		8	21	6	3	
7/24/2014		7	20	8	0	
7/25/2014		7	20	9	0	
7/26/2014		7	20	9	0	
7/27/2014		7	20	9	0	
7/28/2014		7	20	5	9	
7/29/2014		7	20	9	0	
7/30/2014		7	20	10	0	
7/31/2014		7	20	9	1	•

Total 265

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W403 Harden 1-4 North Goodland Goodland None August-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
8/1/2014		6 1	.9	10	2	
8/2/2014		6 1	9	10	0	
8/3/2014		6 1	9	10	0	
8/4/2014		6 1	9	10	0	
8/5/2014		6 1	9	10	0	
8/6/2014		6 1	9	10	0	
8/7/2014		6 1	9	10	0	
8/8/2014		6 1	9	10	0	
8/9/2014		6 1	9	10	0	
8/10/2014		6 1	19	10	0	
8/11/2014		6 1	19	10	0	
8/12/2014		6	19	10	0	
8/13/2014		6	19	10	0	
8/14/2014		6	19	10	0	
8/15/2014		6	19	10	0	
8/16/2014		6	19	10	0	
8/17/2014		6	19	10	0	
8/18/2014		6	19	10	0	
8/19/2014		6	19	10	0	
8/20/2014		6	19	10	0	•
8/21/2014		6	19	10	0	
8/22/2014		6	19	10	0	
8/23/2014		6	19	10	0	
8/24/2014		6	19	10	0	
8/25/2014		6	19	10	0	
8/26/2014		6	19	10	0	
8/27/2014		6	19	10	0	
8/28/2014		6	19	10	0	
8/29/2014		6	19	10	0	
8/30/2014		6	19	10	0	
8/31/2014		6	19	10	0	

Total 310

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